

L 55055-65

ACCESSION NR: AT5016800

is normally located at an altitude of 28 km and in cyclones at an altitude of 25 km. Although the lapse rate in the layer between the tropopause and the isopause at all seasons is close to zero, it is positive in stratospheric wintertime and negative in summer. Above the isopause, the lapse rate is negative in summer and positive in winter.

In the mesosphere over Canada, Alaska, and the North Atlantic in January, April, July, and October 1970-1972 (see Fig. 1 of the Enclosure). Orig. art. has: 5 figures. (SP)

ASSOCIATION: Tsentral'nyy institut prognozov, Moscow (Central Institute of Weather Forecasting)

SUBMITTED: 00

ENCL: 01

SUB CODE: ES

NO REF SOV: 006

OTHER: 004

ATD PRESS: 4027

Card 2/3

L 55055-65

ACCESSION NR: AT5016800

ENCLOSURE: 01

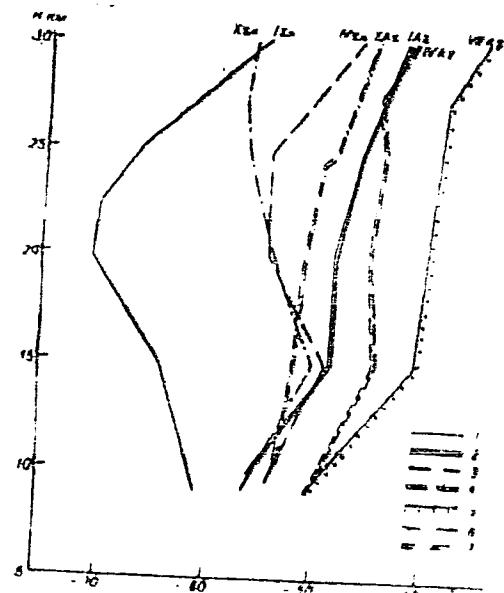


Fig. 1. Distribution of temperature with altitude in center of stratospheric cyclone and stratospheric anticyclone (from the tropopause to 30 km) for 1959-1962

- 1 - In cyclone center (Jan.);
- 2 - in anticyclone center (Jan.);
- 3 - in cyclone center (Apr.);
- 4 - in anticyclone center (Apr.);
- 5 - in anticyclone center (July);
- 6 - in cyclone center (Oct.);
- 7 - in anticyclone center (Oct.);

Card 3/3

URANOVA, L.A.

Structure of stratospheric cyclones and anticyclones in different  
seasons. Trudy TSJP no.146:136-141 '65. (MRA 18:9)

URANOVA, M.I.

Proper motions of stars in the vicinity of SY Cygni. Soob. GAIKH no. 81:  
27-29 '52. (MLRA 7:5)  
(Stars--Proper motion)

Astrometry, Photographic Astrometry (2992)

Sobstch. Gos. Astron. Inst. Im. Shternberga, No. 95, 1953, pp 3-7

"Proper Motion of Stars in the Region of the New Lacerta in 1910"

Two photographs obtained on the astrophotograph of the Moscow Observatory in 1910 were used for determination of proper motion of fast-moving stars in the region of the New Lacerta.

SO: Referativnyi Zhurnal-- Astronomiya i Geodeziya, No. 4, 1954 (A-30907)

1. URANOVA, T. A.
2. USSR (600)
4. Stars-Proper Motion
7. Proper motions of stars of the type T Tauri.  
Per. zvezdy 8 No. 3, 1951
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

URANOVA, T.A.

Stars in the nebula NGC 2264. Astron.tsir. no.138 My '53.

(MLR 7:1)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.  
(Nebulae)

URANOVA, T.A.

New variable stars in the vicinity of S.Monocerotis. Astron.tsir.  
no.156:17-18 Ja'55. (MLRA 8:10)  
(Stars, Variable)

USER/ Astronomy

Card 1/1 Pub. 86 - 13/42

Authors : Uranova, T. A., Cand. Physico-Math. Sc., Moscow

Title : Nova (new star) DQ in the Hercules constellation

Periodical : Priroda 45/1, 86-88, Jan 56

Abstract : The phenomenon is recalled of how the faint star in the Hercules constellation suddenly flared up in brightness and then faded back to its original faintness. This star which is designated as DQ, it is explained, had manifested the characteristics of a nova. The recent discovery that this star has also fluctuations of brightness which last only 4 hours and 39 minutes indicates that it forms part of a binary.

Institution : .....

Submitted : .....

URANOVA, T.A.

Investigating stars in the 6 Monocerotis region. Trudy GAISH  
29:71-177 '58. (MIRA 12:9)  
(Stars--Observations)

УАНАУЧНАЯ Т. А.

STATE BOOK EXPLOITATION

SOV/3939

SOV/51-M-29

Moscow. Universitet. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga

Trudy, tom 29 (Transactions of the State Astronomical Institute imeni P.K. Shternberg, Moscow State University, Vol 29) [Moscow] 1958. 274 p. 500 copies printed.

Resp. Ed.: P.P. Parenago, Corresponding Member, Academy of Sciences USSR; Ed.: Ye.D. Pavlovskaya; Tech. Ed.: M.S. Yermakov.

PURPOSE: The book is intended for astronomers and astrophysicists.

COVERAGE: This is a collection of three monographs on observations of star luminosity in the neighborhood of the sun, stellar observation in the vicinity of S Monoceros, and the photometric study of stars in the region of five large gaseous nebulae: IC 1805, NG 2175, NGC 2237-38, NGC 6618, and IC 1396. Catalogues of stars with additional data appear after each monograph. References accompany each monograph.

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Transactions of the State (Cont.)

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Sharov, A.S. Color-Luminosity Diagram of Stars in the Neighborhood  
of the Sun

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photometric Observations

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Ch. II. Observations and Their Analysis

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Kazilova, T.S. Investigation of Stars in Gaseous Nebulae

## Introduction

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Transactions of the State (Cont.)

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AVAILABLE: Library of Congress (QB1.M82)

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JA/cdw/jb  
8-23-60

URANOVA, T.A.

Study of dark nebulae based on star counting. Astron.tsir. no.213:  
14-17 J1 '60. (MIRA 14:1)

1. Gosudarstvennyy astronomicheskiy institut imeni Shternberga.  
(Nebulae)

URANOVA, T.A.

Methods for studying thin dark nebulas on the basis of star counts. Astron.zhur. 29 no.3:476-493 My-Je '62. (MIRA 15:5)

1.Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.  
(Nebulae) (Stars--Distribution)

ACCESSION NR: AT4038535

S/2623/63/000/128/0027/0044

AUTHOR: Uranova, T. A.

TITLE: A nomogram method for determination of the parameters of a dark nebula elongated along the line of sight and its application to a nebula in an arm of the Milky Way

SOURCE: Moscow. Univ. Gos. astron. Inst. Soobshch., no. 128, 1963, 27-44

TOPIC TAGS: astronomy, nebula, dark nebula; Milky Way

ABSTRACT: The nomographic method for determination of the parameters of an infinitely thin dark nebula on the basis of star counts, proposed by T. A. Uranova (AZh, 39, No. 2, 1962), has been applied to the case of a nebula of finite thickness. It is shown that the Wolf method also is correct in this case with respect to determination of total light absorption in the nebula. The thickness of the nebula is determined using nomograms for the function  $\Delta M(\Psi)$  and  $\rho$ , using nomograms of the function  $\Psi = \Psi / -\alpha E$  (these functions are described in the text). The method makes it possible to determine not only the parameters of the nebula studied, but also a nebula in a control region with lesser absorption on the assumption that the law of change of stellar density and the luminosity function are identical for both regions. The method also can be used when the observations

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ACCESSION NR: AT4038535

do not embrace the region of stellar magnitudes in which the Wolf curves are parallel. The approximate results obtained in this case are of sufficient accuracy. The nomogram method was used to process the results of star counts in an arm of the Milky Way (constellation Aquila). The mean parameters derived for the dense layer of dust responsible for the branching phenomenon agree well with the results obtained using photoelectric photometry and it appears that the detailed study of the structure of dark clouds by star count methods is practicable. Orig. art. has: 30 formulas, 6 figures and 4 tables.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut Moskovskogo universiteta  
(State Astronomical Institute of Moscow University)

SUBMITTED: 00

DATE ACQ: 18Jun64

ENCL: 00

SUB CODE: AA

NO REF Sov: 006

OTHER: 000

Card 2/2

URANOVA, Ye. V. Cand. Med. Sci.

Dissertation: "The Condition of the Hypophysis Cerebri and the Suprarenal Glands in Hypertension Cases." First Moscow Order of Lenin Medical Inst. 3 Feb 47.

SO: Vechernaya Moskva, Feb, 1947 (Project #17836)

URANOVA, Ya. V. (Moskva, D-284, Begovaya ul., d. 18, kv. 2); VOLODIN, N.I. (Moskva, Shchukinskaya ul., d. 25-a, kv. 17)

Pigmented tumors of the pia mater. Vop. onk. 5 no.1:54-59 '59.

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. N.A. Krayevskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey i prozektury bol'nitay imeni S. P. Botkina (zav. - A.S. Bobrova)

(MELANOMA, case reports,  
pia mater (Rus))

(PIA MATER, neoplasms,  
melanoma (Rus))

YELIZAROVA, O.N.; SINITSYN, S.N.; SHUR.R.L.; URANOVA, Ye.V.

Change in the higher nervous activity and other functions in  
animals under the influence of small concentrations of the  
components of explosive gases. Uch.zap.Mosk.nauch.-issl.inst.  
san. i gig. no.3:62-67'60. (MIRA 16:7)  
(CONDITIONED RESPONSE) (GASES—TOZICOLOGY)

ZABEZHINSKAYA, N.A.; URANOVA, Ye.V.

Changes in the higher nervous activity and other functions in  
animals under the influence of small doses of dinitrobenzene  
and dinitrochlorobenzene. Uch.zap.Mosk.nauch.-issl.inst.san.i  
gig. no.3:76-80'60. (MIRA 16:7)  
(CONDITIONED RESPONSE) (BENZENE--TOXICOLOGY)

URANOVA, Ye.V.; KHODASH, S.S.

Case of lymphadenosis complicated by reticulo- and fibrosarcoma.  
Probl. gemat. i perel. krovi no. 2:44-47 '62. (MIRA 15:1)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy  
chlen AMN SSSR prof. N.A. Krayevskiy) TSentral'nogo instituta  
usovershenstvovaniya vrachey.  
(LYMPHATICS—DISEASES) (CANCER)

URANOVA, Ye. V. (Moskva)

Morphology of some renal hypertensions. Arkh. pat. no. 4:43-49  
'62. (MIRA 15:4)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy  
chlen AMN SSSR prof. N. A. Krayevskiy) TSentral'nogo instituta  
usovershenstvovaniya vrachey.

(HYPERTENSION) (KIDNEYS--DISEASES)

URANOVA, Ye.V.; TREGUBOVA, Kh.L. (Moskva)

Chemoedectomas. Arkh. pat. 10:18-24 '62. (MIRA 17:1)

1. Iz kafedry patologicheskoy anatomi (zav. - prof. P.P. Yerofeyev [deceased]) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. M.D. Kovrigina) i patologoanatomicheskogo otdeleniya (zav. V.P. Kesareva) klinicheskoy ordena Lenina bol'nitsy imeni Botkina (glavnnyy vrach Yu.G. Antonov).

STARKOVA, N.T.; URANOVA, Ye.V.

Stein-Leventhal syndrome. Akush. i gin. no.1:48-52 '63.

(MIA 17:6)

1. Iz kliniki endokrinnikh zabolеваний (zav. - prof. N.A. Shereshevskiy [deceased]), kafedry patologicheskoy anatomii (zav.- prof. N.A. Krayevskiy) TSentral'nogo instituta usovершенstvovaniya vrachey na baze bol'nitsy imeni Botkina (glavnyy vrach - prof. N.A. Shabanov), Moskva.

VLASOV, P.V.; URANOVA, Ye.V. (Moskva)

Morphology of Menetrier's disease (excessive gastric mucosa).  
(MIRA 17:10)  
Arkh. pat. 25 no.9:55-63 '63.

1. Iz 2-y kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) i  
kafedry patologicheskoy anatomii (zav. - prof. A.V. Smol'yannikov)  
TSentral'nogo instituta usovershenstvovaniya vrachey.

URANOWICZ, K.

Linear velocities of the working elements and standardization of the jute-carding machines.

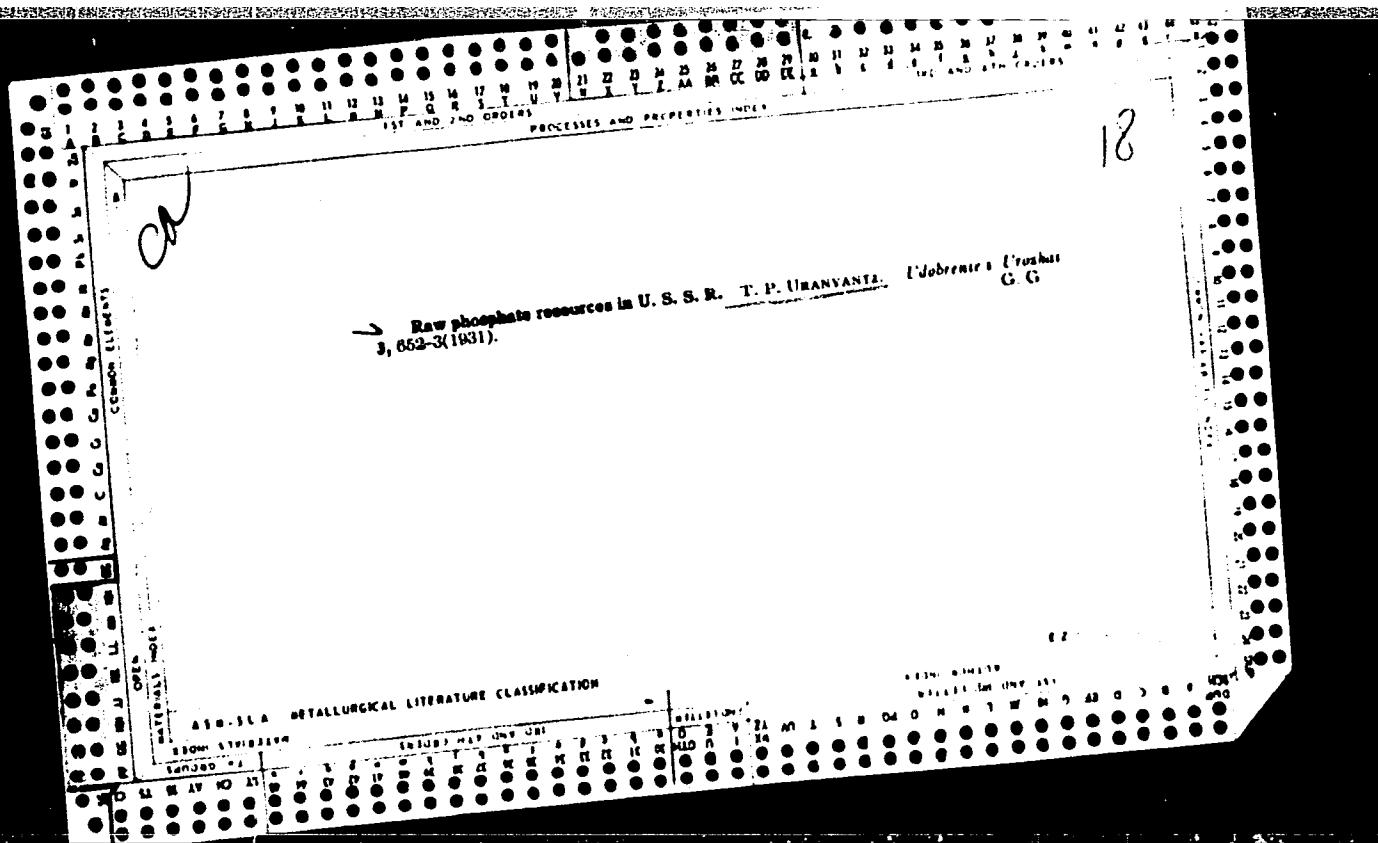
p. 311 (Przemysl Wloclawiecczy. Vol. 10, no. 7, July 1956. Lodz, Poland)

Monthly Index of East European Accessions (EEAI) I.C. Vol. 7, no. 2,  
February 1958

URANOWICZ, K.

Great possibilities of the development of yarn without twist. p. 405.  
(PRZEMYSŁ WŁOKIENNICZY. Vol. 10, no. 9, Sept. 1956, Łódź, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.



URAO, Laszlo, dr.

Aortic syndrome. Orv. hetil. 96 no.45:1249-1252 6 Nov 55.

1. A Budapesti Orvostudomanyi Egyetem III. sz. Belklinikajának  
(igazgató: Gomori Pal dr. egyet. tanár) közleménye.  
(AORTA, diseases,  
aortic synd.)

URASHEV, S.T.

Characteristics of hemodynamic changes and blood oxygenation in right  
and left resection of the lung in tuberculosis. Zdrav. Kazakh. 21  
no.10:11-16 '61. (MIRA 15:2)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. M.I.Bryakin)  
Kazakhskogo meditsinskogo instituta.  
(TUBERCULOSIS) (BLOOD\_OXYGEN CONTENT)  
(LUNGS\_SURGERY)

BEL'KOVICH, O. I.; URASIM, L. A.

Investigating the equipment for photographic observations of  
artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem.  
(MIRA 13:6)  
no.3:10-15 '58.

1. Astronomicheskaya observatoriya im. Engel'gardta.  
(Astronomical photography--Apparatus and supplies)

URASIN, L. A.

PHASE I BOOK EXPLOITATION 503/5575

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten' stantsii opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 6. (Bulletin of the Station for Optical Observation of Artificial Earth Satellites, No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

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Bulletin of the Stations (Cont.)

SC7/5575

are mentioned. There are no references.

TABLE OF CONTENTS:

Panova, G. V., T. Ye. Sychchenko, B. A. Firago, and D. Ye. Shchegolev [Glavnaya (Pulkovo) Astronomicheskaya obser-  
vatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the  
Academy of Sciences of the USSR]. Observations of the Second  
Artificial Earth Satellite (1957 B) at Station No. 039 (Pulkovo)  
(Observations: B. A. Firago, D. D. Polozhentsev, G. V. Panova,  
N. M. Bronnikova. Measurements and Calculations: T. Ye. Sychchenko,  
G. V. Panova, D. Ye. Shchegolev, B. A. Firago, and M. P. Mise-  
leva) 1

Lengauer, G. G. [Main (Pulkovo) Astronomic Observatory of the  
Academy of Sciences of the USSR]. On Methods for Precise Photo-  
graphic Determinations of the Positions of Artificial Earth Satel- 6  
lites

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Bulletin of the Stations (Cont.)

SOC/5575

cation of the NAF-3m/25 Photographic Camera at Pulkovo

13

Firago, B. A. [Main (Pulkovo) Astronomic Observatory]. Systematic Errors in the Readings of Hundreds of Seconds of Precision Chronographs (21-II Nos. 001, 011, 045 - 1954; 143, 146, 199 - 1957; 235 - 1958)

15

Romero, G. [Santiago Astronomic Observatory of the University of Chile]. On the Illumination of an Artificial Satellite

15

Results of Photographic Observations of Artificial Earth Satellites

13

a. Urasin, L. A., L. L. Andriyevskaya, L. N. Kalikheva, and Kh. Shakirova [Astronomicheckaya observatoriya im. Engel'sgerda, Kozmonauticheskaya observatoriya im. Engel'sgerda, Karab'']

13

b. Kalikhevich, F. F., and T. Ya. Ivakina [Nikolayevskoye otdeleniye GAO AN SSSR - Nikolayevsk Department of the Main Astronomical Observatory of the Academy of Sciences

Card 4/6

URASIN, L.A.

Determining the altitude above the earth's surface of an  
artificial satellite crossing the meridian plane perpendicularly.  
Bul.sta.opt.nabl.isk.sput.Zem. no.8:6-7 '59.  
(MIRA 13:6)

1. Astronomicheskaya observatoriya im. Engel'gardta.  
(Artificial satellites--Tracking)

URASIN, L.A.

Determining the altitude above the earth's surface of an  
artificial satellite from the observation of its crossing  
the edge of the earth's umbra. Biul.sta.opt.nabl.isk.sput.  
zem. no.8:7-9 '59. (MIRA 13:6)

1. Astronomicheskaya observatoriya im. Engel'gardta.  
(Artificial satellites--Tracking)

BULOVICH, O. I.; URASIN, L. A.

Visual and radar observations of a fireball. Astron. tsir. no. 208:29  
(MIRA 13:11)  
Ja '60.

1. Astronomicheskaya observatoriya im. V.P. Engel'gardta pri Kazan -  
skom gosudarstvennom universitete.  
(Meteors)

URASIN, L.A.

Photographic observations of a supernova in MCG 4564. Astron.  
(MIRA 16:6)  
tsir. no.229:20 Je '62.

1. Astronomiceskaya observatoriya im. V.P. Engel'gardta.  
(Stars, New)

URASIN, L.A.

Stellar microphotometer at the Engel'gardt Observatory. AFIP Neg. No.  
no. 232:16-17 D '62.

1. Astronomicheskaya observatoriya im. V.P. Engel'gardta.  
(Microphotometer)

AUTH: Urasin, L. A. Ref: 5/25/1963 24  
 TITLE: Izv. Astronomiya. Odess. 1963, No. 34, p. 11-252  
 Criteria for a quantitative classification of stellar spectra and luminosities in the Galaxy, Part 1.  
 IZV. ASTRON. 1963, No. 34, p. 11-252  
 TOPIC TAGS: stellar astronomy, spectrophotometry, Galaxy, stellar luminosity, Praesepe, Lacerta, variable star, star classification, diffuse nebula, constellation, Engel'gardt Observatory, Kazanok, Mtsa, no. 34, 1963,  
 TRANSLATION: It is reported that the work begun in 1960 at the Observatory in Engel'gardt Observatory will include determination of the absolute magnitudes of stars in SA 24-43 to the 13th magnitude, stellar classes and absolute magnitudes to 15m-16m, investigations of light absorption, B, V stellar magnitudes and variable stars. The photographs are being obtained using the Schmidt telescope (382/518/932mm) of the Engel'gardt Observatory.  
 SUB CODE: AA

seen  
 the  
 a good  
 location  
 stellar-sta-  
 tems. B.

AUTH: Urasin, L. A. Ref: 5/25/1963 24  
 TITLE: Izv. Astronomiya. Odess. 1963, No. 34, p. 11-252  
 Criteria for a quantitative classification of stellar spectra and luminosities in the Galaxy, Part 1.  
 IZV. ASTRON. 1963, No. 34, p. 11-252  
 TOPIC TAGS: stellar astronomy, spectrophotometry, Galaxy, stellar luminosity, Praesepe, Lacerta, variable star, star classification, diffuse nebula, constellation, Engel'gardt Observatory, Kazanok, Mtsa, no. 34, 1963,  
 TRANSLATION: It is reported that the work begun in 1960 at the Observatory in Engel'gardt Observatory will include determination of the absolute magnitudes of stars in SA 24-43 to the 13th magnitude, stellar classes and absolute magnitudes to 15m-16m, investigations of light absorption, B, V stellar magnitudes and variable stars. The photographs are being obtained using the Schmidt telescope (382/518/932mm) of the Engel'gardt Observatory.  
 SUB CODE: AA

AUTH: Urasin, L. A. Ref: 5/25/1963 24  
 TITLE: Izv. Astronomiya. Odess. 1963, No. 34, p. 11-252  
 Criteria for a quantitative classification of stellar spectra and luminosities in the Galaxy, Part 1.  
 IZV. ASTRON. 1963, No. 34, p. 11-252  
 TOPIC TAGS: stellar astronomy, spectrophotometry, Galaxy, stellar luminosity, Praesepe, Lacerta, variable star, star classification, diffuse nebula, constellation, Engel'gardt Observatory, Kazanok, Mtsa, no. 34, 1963,  
 TRANSLATION: It is reported that the work begun in 1960 at the Observatory in Engel'gardt Observatory will include determination of the absolute magnitudes of stars in SA 24-43 to the 13th magnitude, stellar classes and absolute magnitudes to 15m-16m, investigations of light absorption, B, V stellar magnitudes and variable stars. The photographs are being obtained using the Schmidt telescope (382/518/932mm) of the Engel'gardt Observatory.  
 SUB CODE: AA

L 15974-66 EWT(1) GS/GW

ACC NR: AT5027125

SOURCE CODE: UR/0000/65/000/000/0046/0049

AUTHOR: Urasin, L. A.

ORG: none

TITLE: Iris microphotometer <sup>12,55</sup> on the base of MF-2

SOURCE: AN SSSR. Astronomicheskiy sovet. Komissiya priborostroyeniya. Soveshchaniye, Kazan, 1964. Novaya tekhnika v astronomii (New techniques in astronomy); materialy soveshchaniya, no. 2, Moscow, Izd-vo Nauka, 1965, 46-49

36 32  
B

TOPIC TAGS: electronic engineering, microphotometer, astronomy, photographic astronomy, star

ABSTRACT: Iris microphotometers are coming into use for measuring the photographic images of stars. The apparatus has numerous advantages in operation and in accuracy of measured data. The microphotometer MF-2 used in the observatories of the SSSR could easily be changed into an iris microphotometer. The counting part of the optical scheme was transformed into a control light beam with which the beam, passing the photoplate P, was compensated (see Fig. 2). The objective

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ACC NR: AT5027125

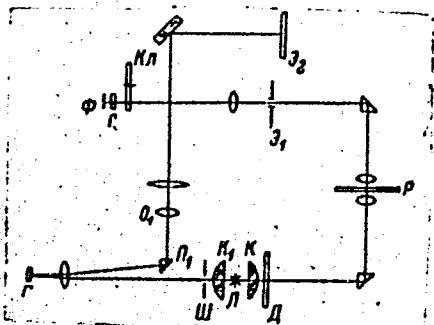


Figure 1.

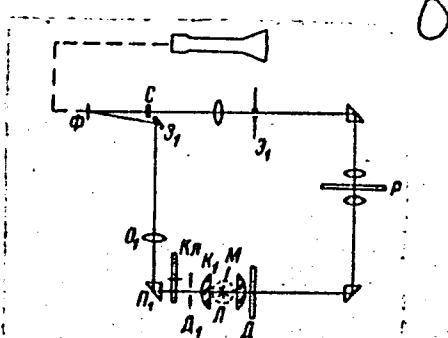


Figure 2.

0<sub>1</sub> with prism 7, was turned by 180° around the optical axis and slightly lowered along it. The light beam, passing through the objective 0<sub>1</sub>, was directed (by means of additional mirror 3, ) into photoelement  $\phi$  (or photomultiplier) together with the beam passing through photoplate P. The scale III was eliminated and replaced by wedge K<sub>1</sub> from MF-2. The iris diaphragm or transparent disk with

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L 15974-66

ACC NR: AT5027125

opaque plates, having holes with various diameters (from 0.432, marked as No. 1, to 3.024mm, No. 30; the diameter of hole D was related with the number of the hole N by an equation  $N = 11.18D - 3.97$ ), as it was produced in the operating device. The intake slot in MF-2 was replaced by screen  $\mathfrak{D}_1$ ; this had an orifice which could be overlapped by the electromagnet. The diameter of the orifice was slightly larger than the image on the screen of the plates with the holes of the disk D. The illuminating lamp  $\mathfrak{J}_1$  was covered by an obturator M, having 3 beam holes (situated at  $120^\circ$ ) and rotated by the electric motor PD-0<sup>1</sup>, so that the changes in illumination of the photoelement  $\phi$  occurred 20 times in 1 sec. The screen  $\mathfrak{D}_2$  in the MF-2 was switched off and an oscillograph ENO-1<sup>1</sup>(Cl-4) was used instead. The equalization of the beam, passing through photoplate P, and of the control beam was made by changing the holes of disk D, and it was checked on the oscillograph screen. The number N of the hole, visible on the screen  $\mathfrak{D}_1$ , was a measure of the value of intensity of the light passing through the image of a star. Because the diameters of the holes changed stepwise, it was possible, by using the lattice set on the oscillograph screen, to make interpolations and to determine accurately the N and part of N of the hole during which the equalization of both beams occurred. The error in determination of star parameters was 0.04 m. It was possible to decrease the error to 0.01 m by making the holes with an accuracy of

Card 3/4

L 15974-66

ACC NR: AT5027125

D

2 - 3 $\mu$ . Orig. art. has: 5 figures, 2 formulas and 1 table.

SUB CODE: 03,20/ SUBM DATE: 25Jun65/ ORIG REF: 003/ OTH REF: 002

bvk  
Card 4/4

CHUDOVICHIEVA, N.A.; KAPRALOV, V.P.; RABINSKIY, P.M.; URASINA, I.A.

Latitude variations of the Engel'gardt Astronomical Observatory in  
1959. Astron.tsir. no.210:14 Ap '60. (MIRA 13:9)

1. Astronomicheskaya observatoriya im. Engel'gardta.  
(Latitude variation)

ACC NR: AR6016959

SOURCE CODE: SU/01a9/35/000/01./0014/0014

AUTHOR: Urasina, I.A.

TITLE: Slope-measuring observations at the AOE during the 1960-1962 period

SOURCE: Ref. zh. Geofizika, Abs. 12G102

REP SOURCE: Sb. Itog. nauchn. konfer. Kazansk. un-ta za 1963 g. Sekts.: paramag. rez., spektroskopii i fiz. polymer., radiofiz., astron., biol. Kazan', 1964, 98-99

TOPIC TAGS: *СЕИЗМОЛОГИЧЕСКИЕ МЕСИРУЮЩИЕ СРЕДСТВА*, seismology, Earth's hardness, seismic wave, seismic station, seismic slope meter/SPB-1 seismic slope meter

ABSTRACT: The Earth's hardness,  $\gamma$ , is defined as the ratio of the observed amplitude of vertical oscillation to the one calculated for a perfectly hard Earth. A station for the study of Earth's tides, established at the (imperial) V.P. Engel' s Astronomical observatory (AOE) in 1950 is described. Since 1960, AOE with the Institute of Physics of the Earth (Moscow), conduct slope measurements with seismic slope meter (system of Ostrovskiy) type SPB-1. Data obtained Sep. 1960 - Dec. 1962 have been evaluated by 29-day series using the Pertsev method. Values of  $\gamma$  based upon evaluation of  $M_2$ ,  $S_2$ ,  $N_2$ , K and O waves, and the results of observations by A.I. Ivanova (Oct 1952 - Jan. 1955) with the pendulums of Repsold-Levitskiy are given. [Translation of abstract].

SUB CODE: 08

Card 1/1

DDC: 525.622

URASINSKI, Ignacy; URASINSKA, Anna

On the activity of neutrophilic alkaline phosphatase with  
Felger-Huet anomaly in rabbits. Pat. Pol. 15 ro. 26233-277  
Apr-je '64

1. Z IJ Kliniki Chorob Wewnętrznych Akademii Medycznej w  
Krakowie (p.o. Kierownika doc. dr.med. S. Kirchmayer) i  
z Katedry Zywienia Zwierząt Wyższej Szkoły Rolniczej w  
Krakowie (Kierownika doc. dr. med. S. Treła).

KOWALCZYK, Mieczyslaw; URASINSKI, Ignacy

Case of drug agranulocytosis caused by the presence of granulocyto-agglutinins. Polskie arch. med. wewn. 27 no.8:1137-1146 1957.

l. Z III Kliniki Chorob Wewnętrznych A. M. w Krakowie Kierownik; prof. dr nauk med T. Tempka. Adres autora: Krakow II Klinika Chorob Wewnętrznych Kopernika 17.

(AMINOPYRIN, injurious effects,  
agranulocytosis with granulocyto-agglutinins (Pol))

(AGRANULOCYTOSIS, etiology and pathogenesis,  
aminopyrine, presence of granulocyto-agglutinins (Pol))

URASINSKI, I

CETNAROWICZ, Jan; GOLINSKI, Kazimierz; WIJNOWSKI, Michal; URASINSKI,  
Ignaci; Krakow.

Pneumopericardium as a complication of perforation of a peptic  
ulcer of the stomach. Przegl. lek., Krakow 11 no.6: 156-169 1955.

1. Z II Kliniki Chorob Wewn. A.M. w Krakowie. Kierownik: prof.  
dr. T. Tempka i z Zakladu Anatomii Patologicznej A.M. w Krakowie

Kierownik: prof. dr. J. Kowalczykowa.

(PEPTIC ULCER, perforation

causing pneumopericardium)

(PNEUMOPERICARDIUM, complications  
peptic ulcer perf.)

URASINSKI, Ignacy

Use of exudates for cyto-enzymatic studies; preliminary communication.  
Polskie arch. med. wewn. 39 no.1:43-49 1959.

l. Z II Kliniki Chorob Wewnetrznych A.M. w Krakowie Kierownik: prof.  
dr nauk med. T. Tempka. Adres autora: Krakow, ul. Kopernika 15, II  
Klinika Chor. Wewn. A.M.

(ENZYMES, in blood,  
cyto-enzymatic tests with exudates (Pol))

(EXUDATES AND TRANSUDATES,  
exudate cyto-enzymatic tests in hematol. (Pol))

TEMPKA, D.; GEMBALA, M.; KOWALCZYK, I.; URASINSKI, I.

The Thyroidogram. Acta medica polona (Warszawa) 1 no.3/4:8-123  
'60

1. From the II Clinic of Internal Diseases of the Medical Academy  
in Cracow Director: Professor T. Tempka M.D. and the Commission of  
Medical Sciences of the Cracow Branch of the Polish Academy of  
Sciences.

(THYROID GLAND anat & histol)

KUBICZEK, Mieczyslaw [deceased]; MRUK, Jozef; URASINSKI, I.

A case of monocytic leukemia type "Schilling" in cytochemical picture. Polskie arch.med.wewnetrz. 30 no.1:77-84 '60.

1. Z II Kliniki Chorob Wewnetrznych A.M.w Krakowie. Kierownik:  
prof.dr.nauk.med. T. Tempka.  
(~~LEUKEMIA~~ MONOCYTIC pathol.)

URASINSKI, Ignacy

Studies on the ribonuclease activity of peritoneal fluids. Polskie  
arch. med. wewn. 31 no.4:511-517 '61.

1. Z II Kliniki Chorob Wewnetrznych AM w Krakowie Kierownik: prof.  
dr n. med. T. Tempka i z Zakladu Chemii Fizjologicznej AM w Krakowie  
Kierownik: prof. dr n. med. B. Skarzynski.

(RIBONUCLEASE chem) (PERITONEAL CAVITY)

TEMPKA, Tadeusz; HANICKI, Zygmunt; URASINSKI, Ignacy

Pelger-Huet anomaly associated with limited partial albinism.  
Cytochemical studies on Pelger's blood cells. Polskie arch.  
med. wewn. 31 no.4:583-588 '61.

1. Z II Kliniki Chorob Wewn AM w Krakowie Kierownik: prof. dr  
n. med. T. Tempka.

(LEUKOCYTES) (ALBINISM compl)

URASINSKI, Ignacy; DROZDZ, Henryk; KLIMEK, Rudolf

Studies on the activity of transaminases in peritoneal fluids. Pol. arch. med. wewn. 33 no.4:399-405 '63.

1. Z II Kliniki Chorob Wewnętrznych AM w Krakowie, Kierownik: prof. dr med. T. Tempka i z I Kliniki Ginekologiczno-Położniczej AM w Krakowie Kierownik: prof. dr med. S. Schwarz.

(ASCITES) (ASPARTATE AMINOTRANSFERASE)  
(ALANINE AMINOTRANSFERASE)  
(BLOOD CHEMICAL ANALYSIS) (ENZYME TESTS)  
(LIVER CIRRHOSIS) (HEART FAILURE CONGESTIVE)  
(PERITONEAL NEOPLASMS) (OVARIAN NEOPLASMS)

TEMPKA, Tadeusz; CEMBALA, Damian; KOWALCZYK, Mieczyslaw; URASINSKI,  
Ignacy.

Phase contrast and dark field microscopy of pituitary biopsy,  
with special reference to the behavior of neurosecretion. Acta  
med. pol. 5 no.1:1-14 '64

1. Commission of Medical Sciences of the Cracow Branch of the  
Polish Academy of Sciences (Director: Prof.Dr. T.Tempka) and  
IIInd Clinic of Internal Diseases, Medical Academy, Cracow  
(Director: Prof.Dr. T.Tempka).

\*

URASINSKI, Ignacy

Cytophotometric studies on desoxyribonucleic acid in acute  
leukemia cells. Acta med. Pol. 5 no.3:337-346 '64.

I. II Ind Clinic of Internal Diseases, Medical Academy, Cracow  
(Director: Doc. Dr. S. Kirchmayer); Department of Pathological  
Anatomy, Pomeranian Medical Academy, Szczecin (Director: Prof.  
Dr. K. Stojalowski).

KOBIELA, Jan; TURONSKA, Bozena; GAWRZENSKI, Wieslaw; URASINSKI, Ignacy

Anti-M agglutinins in the serum of a femal patient. Arch.  
immun. ther. exp. 12 no.6:667-669 '64

1. Institute of Forensic Medicine, School of Medicine, Cracow,  
and IIInd Clinic of Internal Diseases, School of Medicine,  
Cracow.

URANOWSKI, Ignacy; URAS-NOWA, Anna

In the activity of neutrophilic alkaline phosphatase with  
Belgor-Huet anomaly in rabbits. Pat. pol. 15 no. 28733-227  
Kw-Je '64

1. Z II Kliniki Chorób Wewnętrznych Akademii Medycznej w  
Krakowie (p.o. Kierownika doc. dr.med. S. Kirschmayer) i  
z Katedry Zygienia Zwierząt Wydziału Szkoly Rolniczej w  
Krakowie (Kierownika doc. dr. med. S. Trebla).

KRICHMAYER, Stanislaw, doc. dr.; STRUZIK, Tadeusz; URASINSKI, Ignacy;  
BIERNACKA, Bogdana

Erythrocytin activity of normal blood cells in some erythropathies.  
Pol. tyg. lek. 20 no. 2:43-45 11 Ja '65

I. Z II Kliniki Chorob Wewnętrznych Akademii Medycznej w Krakowie  
(Kierownik: doc. dr. Stanislaw Kirchmayer).

URASINSKI, Ignacy; SZLEZYNGER, Irena; SYGA, Zdzislaw

Polyvisceral changes in the Sjögren syndrome as an expression  
of generalized collagenosis. Przegl. lek. 21 no.9:563-566 1965.

1. Z II Kliniki Chorob Wewnętrznych AM w Krakowie (Kierownik:  
Doc. dr. med. S. Kirchmayer).

URASMUTOV, N

Terminologicheskiy slovar' po botanike; russko-bashkirskiy i bashkirsko-russkiy  
Terminological Dictionary of botany; Russian-Bashkirian and Bashkirian-Russian

Pod. Red. T. Baishav Yfa, Bashgosizdat, 1952.

129 p.

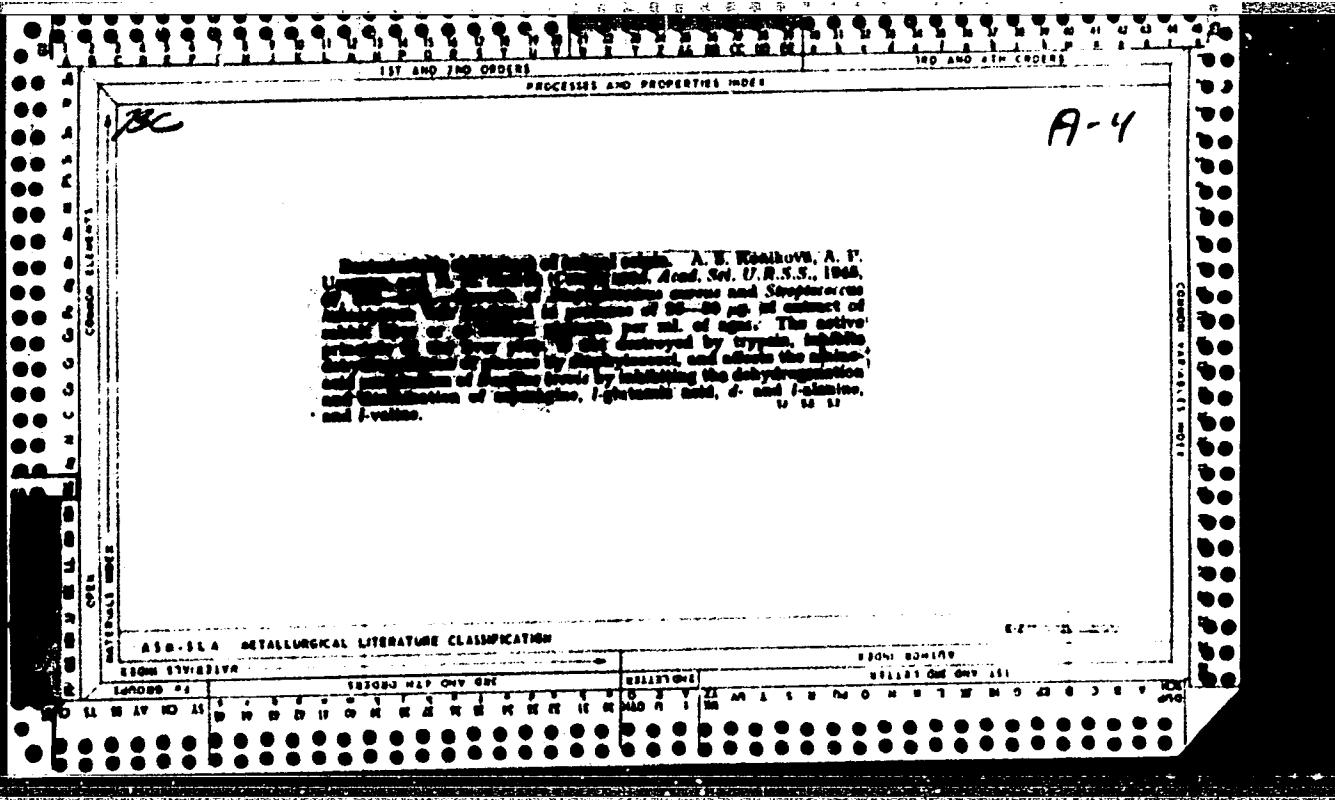
r.-P. In Bashkirian and Russian.

At Head of Title: Akademiya Nauk SSSR. Bashkirskiy Filial. Institut Istorii,  
Yazyka i Literatury.

I19N/5

912

.U7



URATKOV, Y e. F.

Complex knotting in strangulation of the small intestine in a hole  
in the mesentery. Khirurgija, no.4:82 Ap '55. (MLRA 8:9)  
(INTESTINES--OBSTRUCTION)

URATKOV, Ye.F.

Preparation of cytological contact specimens. Lab. delo 4: no. 5:15-17  
S-0 '58 (MIRA 11:11)

(ANATOMICAL SPECIMENS--COLLECTION AND PRESERVATION)

AFRIKANOVA, L.A.; VLASOVA, Ye.F.; URATKOV, Ye.F.

Effect of hypothermia on the development of acute radiation necrosis  
of the skin. Med. rad. 5 no.9:43-47 S '60. (MIRA 13:12)  
(RADIATION SICKNESS) (SKIN--DISEASES)  
(BODY TEMPERATURE)

URATNIK, F.

Yugoslavia (430)

Technology

Increasing milk production by better feeding.  
p. 429, Nova Proizvodnja, Vol. 2, no. 6,  
December 1951.

East European Accessions List, Library of Congress,  
Vol. 2, No. 3, March 1953. UNCLASSIFIED.

URATNIK, F.

Yugoslavia (430)

Technology-Periodicals

Investments in hop culture. p. 564. NOVA PROIZVODNJA (Slovenia. Uprava za napredok v proizvodnji) Ljubljana. (Bimonthly technological journal issued by the Administration for Technological Advancement, including the decimal classification of the articles; with English summaries). Vol. 3, No. 6, Dec. 1952.

East European Accessions List. Library of Congress Vol. 2, No. 6, June 1953. Unclassified.

URATNIK, F.

"The Congress Of European Hop Organizations at Zalec, Slovenia", p. 121. (Nova Proizvodnja, Vol. 4, no. 2, Apr., 1953, Ljubljana.)

SO: Monthly List of European Accessions, Library of Congress, September 1953, Uncl.

L 28429-66 EWT(1)/T JK

ACC NR: AP6019113

SOURCE CODE: UR/0016/65/000/011/0048/5052

AUTHOR: Uravelva, V.S.

ORG: Rostov-on-Don Scientific Research Antiplague Institute (Rostovskiy-na-Donu issledovatel'skiy protivochumnyy institut)

TITLE: Potential utilization of the agglutination inhibition reaction for detecting brucellosis antigens (preliminary report)

SOURCE: Zhurnal mikrobiologii, epidemiologii, i immunobiologii, no. 11, 1965, 48-52

TOPIC TAGS: antigen, brucellosis, serum, antibody

ABSTRACT: The author verified Diernhofer's finding (1956) that soluble brucellosis antigens are capable of binding serum specific antibodies, thereby inhibiting the agglutination of corpuscular antigens when subsequently added. Using the agglutination inhibition reaction, the author was able to detect soluble antigens in various objects, including the supernatant fluid of Brucella suspensions subjected to boiling, to the action of formaldehyde, acetone, and trichloroacetic acid, etc. The reaction was tested on the pathogens of plague, tularemia, cholera, typhoid, etc. and found to be quite specific.

Thus, the author demonstrated the theoretical possibility of detecting certain brucellosis antigens by means of the agglutination inhibition reaction. However, the sensitivity of the reaction proved to be quite low. Moreover, repetition of the tests with the same preparations yielded inconsistent results.

Orig. art. has: 3 tables. [JPRS]

SUB CODE: 06/ SUBM DATE: 21May64/ OTH REF: 001  
Card 1/1 UDC: 616.981.42-078.734

KHALTURIN, K.D., arkhitektor; CHAYKO, I.M., arkhitektor; GOLUBEV, S.L., inzhener; DOBROKHOTOV, I.G., inzhener; KRUPITSY, K.K., inzhener; POGORZHEL'SKIY, L.A., inzhener; POSTNIKOV, A.A., inzhener; SHARYY, Yu.V., kandidat tekhnicheskikh nauk; OLY, A.A., professor, doktor arkhitektury; URAV'YEV, B.V., kandidat arkhitektury; VASIL'YEV, B.D., doktor tekhnicheskikh nauk professor, redaktor; SHUR, N.Ya., redaktor izdatel'stva; ROZOV, L.K., tekhnicheskiy redaktor

[Large-block construction in Leningrad] Krupnoblochnoe stroitel'stvo v Leningrade. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhit., (MLRA 10:7) 1957. 93 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Leningradskiy filial.  
(Leningrad--Precast concrete construction)  
(Leningrad--Apartment houses)

L 34691-66 RO  
ACC NR: AP6025849

SOURCE CODE: RU/0003/65/016/007/0318/0320

AUTHOR: Galea, V.--Galya, V.; Birsan, E. T.--Byrsan, Ye. T.; Uray, Ildiko

ORG: Department of Toxicology, Medical-Pharmaceutical Institute, Cluj (Catedra de toxicologie, Institutul de medicina si farmacie); Laboratory of Radiation Hygiene, Institute of Hygiene and Labor Safety, Cluj (Laboratorul de igiena radiatiilor, Institutul de igiena si protectia muncii)

TITLE: Decontamination of waters containing <sup>90</sup> Sr and <sup>90</sup> Y gypsum and bentonites

SOURCE: Revista de chimie, v. 16, no. 7, 1965, 318-320

TOPIC TAGS: phosphate, nuclear decontamination, strontium, ytterbium

ABSTRACT: A report on a study of the decontaminating capacity of raw gypsum, commercial superphosphate and some Rumanian bentonites. The tests also considered the quantity of decontaminating agent, various proportions in mixtures of the substances, the presence of salts often found in surface waters, and the pH. Best results were obtained with raw gypsum, especially for fluoridated water; bentonites were found to be most effective as mixtures of two types. Orig. art. has: 5 figures. [Based on authors' Eng. abstract] [JPRS: 34,161]

28

B

SUB CODE: 18, 07 / SUBM DATE: none / OTH REF: 029

0916 0980

Card 1/1

UDC: 628.54:546.42.02:546.641.02

L 29762-56 RO  
ACC NR: AP6020893

SOURCE CODE: RU/0003/65/016/009/0456/0458

56  
B

AUTHOR: Galea, V.; Birsan, E. T.; Uray, Ildiko

ORG: Department of Toxicology, IMF, Cluj (Catedra de Toxicologie, IMF);  
Institute of Hygiene and Labor Safety, Cluj (Institutul de Igiena si Protectia  
Muncii)

TITLE: Natural inorganic decontaminating agents for sup 134 Cs and a mixture of  
sup 90 Sr and sup 134 Cs in water

SOURCE: Revista de chimie, v. 16, no. 9, 1965, 456-458

TOPIC TAGS: nuclear decontamination agent, cesium, strontium, gypsum rock

ABSTRACT:

The authors studied the decontaminating effectiveness of crude gypsum, commercial superphosphate and 4 varieties of bentonite for solutions of  $^{134}\text{Cs}$  alone or mixed with  $^{90}\text{Sr}$  and  $^{90}\text{Y}$ . The effect of varying the proportions of decontaminating agents and of varying the pH of the solution was also studied. Orig. art. has: 12 figures. [Based on authors' Eng. abstract]. [JPRS]

SUB CODE: 18 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 012

Card 1/1 CC

UDC: 628.54:546.36.02:546.42.02:661.183.1

S/044/62/000/010/016/042  
B166/B102

AUTHORS: Kuti, Csaba, Uray, László

TITLE: Approximate value of distribution functions of rounded errors obtained by the saddle-point method

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 4, abstract 10V15 (Magyar tud. akad. Közl. fiz. kutato int. közl., v. 8, no. 4, 1960, 239 - 243, v. X [Hun.; summaries in Rus. and Eng.])

TEXT: The Laplace transform of the probability density of the sum of  $n$  uniformly distributed random variables is calculated and the accuracy with which the saddle-point method reproduces this density is studied when  $n = 1, 2, 3$ . The authors note that with large values of  $n$  the density is close to normal, in which case the saddle-point method gives a sufficient result. [Abstracter's note: Complete translation.]

Card 1/1

SOMOGYI, Antal; URAY, Laszlo; JANOSSY, Lajos, akademikus

Determination of exponential absorption parameters from  
angular distribution by means of the method of maximum likelihood.  
Koz fiz kozl MTA 10 no.6:403-422 '62.

1. "Magyar Tudomanyos Akademia Kozponti Fizikai Kutato Inte-  
zetenek Kozlemenyesi" felelos kiadoja (for Janossy).

VAJDA, Istvan, dr. HAJDU, Bela, dr.; SZUCS, Tamas, dr.; URAY, Magda, dr.

Treatment of epistaxis in Osler's disease with sex hormones;  
simultaneous occurrence of seminoma. Orv. hetil. 105 no.30;  
1412-1414 26 Jl'64

1. Hajdu-Bihar Mehyei Tanacs Korhaza, I. Belosztaly.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858020001-6

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858020001-6"

URAY, V.

URAY, V, A. Imre Pattantyus; an obituary. p. 127.

Vol. 49, No. 4, Apr. 1956.

ELEKTROTECHNIKA

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

11/11/75

ROMANIA

POP, S., Lecturer; HOLAN, T., Lecturer; CIOCANIELEA, V., Professor;  
POGINGEANU, P.; URAY, Z.; KORV, M.; BAN, I.

Laboratory of Pharmacodynamics, Nuclear Medicine, Galenic  
Pharmacy, Institute of Medicine and Pharmacy, Cluj.  
(Laboratorul de farmacodinamie, Medicina nucleara,  
Farmacie galonica, I.M.F. Cluj) - (for all)

Bucharest, Farmacin, No 4, Apr 63, pp 203-207.

"Absorption of Labelled Sodium Iodide ( $I^{131}$ ) Via the  
Rectal Mucosa."

(7)

SANTAY, I. (Kluzh, Rumynskaya Narodnaya Respublika); DEREVENKO, P. (Kluzh, Rumynskaya Narodnaya Respublika); DEREVENKO, V. (Kluzh, Rumynskaya Narodnaya Respublika); URAY, Z. (Kluzh, Rumynskaya Narodnaya Respublika)

Study of P-32 inclusion into erythrocytes under reaction to stress. Pat. fiziol. eksp. ter. 7 no.5:53-55 S-0'63  
(MIRA 17:2)

1. Iz Kluzhskogo otdela yadernoy meditsiny (direktor T.Kholan).

SZANTAI, I.; URAY, Z.; FARCASANU, M.; KOVACS, V.

Utilization of ion exchange resins and radiochromatography in  
biological chemistry research. Pts. 1-2. Studia Univ B-B S  
Chem 8 no.1:395-406 '63

1. Section of Nuclear Medicine, Cluj and "Babes-Bolyai"  
University, Cluj.

SZANTAY, Janos; K. ALANIA, Valeria; URAY, Zoltan

Experiences with radiochromatographic analysis of metabolic products of S35-labeled methionine. Kiserl. orvostud. 15 no.6: 658-653 D '63.

1. Cluj-kolozsvari Nuklearis Orvosgyogyaszati Osztaly.  
(URINE) (SULFUR ISOTOPES) (CHROMATOGRAPHY)  
(METHIONINE) (CYSTINE) (AMINO ACIDS)

SZANTAI, I.; URAY, Z.; KOVACS, V.

Observations relating to the isotopic exchange between iodated  
amino acids and  $^{131}\text{I}$  on chromatographic paper. Studii cerc  
biochimie 8 no.1:81-83 '65.

1. Section of Nuclear Medicine, Medicopharmaceutical Institute,  
Cluj. Submitted October 20, 1964.

SZANTAI, I.; URAY, Z.; HOLAN, T.

Rapid method for determining the index of conversion of the  
mineral iodine in protein iodine marked with  $^{131}\text{I}$ . Studii  
cerc biochimie 8 no.1:85-88 '65.

1. Section of Nuclear Medicine, Med. copharaceutical Institute,  
Cluj. Submitted October 20, 1964.

URAEVSKIY, M. A., jt. au.  
URAYEVSKIY, M.A., jt. au.

(Agricultural machinery and implements for the mechanization of field work)

Moskva, Trudrezervizdat, 1953. 221 p. (54-17621)

S760.R9R8

1. Agricultural machinery
2. Agricultural implements

I Uraevskii, M. A., jt. au.

УДК 631.7.1.1  
Rudakov, G.-F.-

Sel'skokhozyaistvennye Mashiny I Prudiya Dlya Mekhanizatsii Polevodstva [Agricultural  
Machines and Tools for The Mechanization of Soil Cultivation, By] G. F. Rudakov I S. I.  
Urayevskiy. Moscow, Trudrezervizdat, 1953  
221 P. Illus.  
"Literatury": P. 219-[220]

N/5  
723.1  
.R92

URAYSKIY, V.S.

Mechanizing the building of large-panel apartment houses in Kemerovo. Makh. stroi. 21 no.3:13-15 Mr 64. (MIRA 17:3)

1. Glavnnyy inzh. kombinata Kemerovoshakhtokhimstroy.

GDR / Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 932.

Author : Uraz, L., Simon, V., Zyka, J.

Inst : Not given.

Title : Titration With Hydroquinone and With a Similar Reducer. VI. The Utilization of the Reaction of Four Valent Cerium With the Salts of Di-valent Manganese.

Orig Pub: Collect, Czechosl. chem. commun., 1958, 23, No 6, 1061-1065.

Abstract: See R. Zh. Khim., 1958, 57163.

Card 1/1

26691  
S/056/61/041/005/006/033  
B109/B102

24.2120 (1538,3617,3717,1163)  
AUTHORS: Urazakov, E. I., Granovskiy, V. L.

TITLE: Determination of the  $\omega_m \tau$  values and the effective collision frequencies of plasma electrons and ions in a magnetic field

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,  
no. 5(11), 1961, 1375 - 1377

TEXT: Measurements of  $\omega_m \tau$  for ions and electrons of an argon plasma column were carried out at various gas pressures. The arrangement provided a 37 mm wide argon-filled tube, a magnetic field of 400 oersted, and a discharge current of 500 ma. In order to determine the effect of the longitudinal magnetic field upon the plasma electrons and ions as well as to ascertain the mean collision frequencies  $\tau_e$  and  $\tau_p$  (subscripts e and p for electrons and ions, respectively) it is sufficient to measure the current densities in the direction of the wall ( $j_{er}$ ,  $j_{pr}$ ) and in the azimuthal direction ( $j_{eq}$ ,  $j_{pp}$ ) at one and the same spot in the plasma. The resulting data may be evaluated with the aid of the formulas  
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B109/B1C2

Determination of the  $\omega_{\text{H}}\tau$  values and ...

$$\frac{j_{p\varphi}}{j_{\text{pr}}} = \frac{v_{p\varphi}}{v_r} = \omega_{\text{H}p} \tau_p \quad \text{and}$$
$$\frac{j_{e\varphi}}{j_{\text{er}}} = \frac{v_{e\varphi}}{v_r} = \omega_{\text{He}} \tau_e$$

The current density measurements were carried out by means of the plane probes shown in Fig. 1. Probe no. 1 measures  $j_r$  (plane perpendicular to the radius), probe no. 2 measures the  $\varphi$ -component (plane of the probe parallel to the z-r-plane).  $v_e$  and  $v_p$  could be determined from these data (Table). The results lead to the conclusions: (a) The effect of a magnetic field of 400 oersted upon the electrons  $\omega_{\text{H}}\tau$  is considerable up to  $p \leq 1$  mm Hg, for ions it is small also at  $p \approx 5 \cdot 10^{-3}$  mm Hg. (b)  $v_p$  grows linearly with  $p$ , so that the mean ion velocity is practically constant. There are 2 figures, 1 table, and 5 references: 3 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: S. C. Brown. Basic Data of Plasma Physics. N. Y., Wiley, 1959.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

Card 2/4

URAZAKOV, E.I.

Some data on the rotational magnetomechanical effect in a low-pressure plasma. Zhur. eksp. i teor. fiz. 44 no.1:41-44 Ja '63.  
(MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet.  
(Plasma (Ionized gases)—Magnetic properties)

URAZAKOV, E.I.; GRANOVSKIY, V.L.

Transverse (Hall) diffusion in a plasma of inert gases. Zhur.  
eksp. i teor. fiz. 45 no.5:1285-1293 N '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet.

ACCESSION NR: AP4038626

S/0109/64/009/004/0735/0740

AUTHOR: Urazakov, E. I.

TITLE: Theory of rotation of a cylindrical plasma column in a longitudinal magnetic field

SOURCE: Radiotekhnika i elektronika, v. 9, no. 4, 1964, 735-740

TOPIC TAGS: plasma, plasma rotation, plasma rotation in magnetic field, three component plasma

ABSTRACT: A 3-component-plasma (electrons, single-charge positive ions, neutral molecules) cylindrical column placed in a longitudinal uniform magnetic field and subjected to a radial electric field is theoretically considered. The case of an external radial electric field is also covered by the theory. An equation of the gas motion in a positive column allowing for the viscosity, inertia, and external forces is set up and solved in a general form. The force exerted on the

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ACCESSION NR: AP4038626

gas is calculated from an equation of the transfer of momentum. Flow of the moment of momentum transferred in the motion of the gas in the  $z r$ -plane is estimated. Orig. art. has: 1 figure, 32 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 01Feb63

DATE ACQ: 05Jun64

ENCL: 00

SUB CODE: ME

NO REF SOV: 003

OTHER: 002

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L 29200-66 EWT(1) IJP(c) AT  
ACC NR: AP6008296 SOURCE CODE: UR/0109/66/011/003/0550/0553

AUTHOR: Urazakov, E. I.

9  
8  
B

ORG: none

TITLE: Influence of the radial electric field on the magnetomechanical effect in an unbalanced plasma

SOURCE: Radiotekhnika i elektronika, v. 11, no. 3, 1966, 550-553

TOPIC TAGS: plasma, magnetomechanical effect

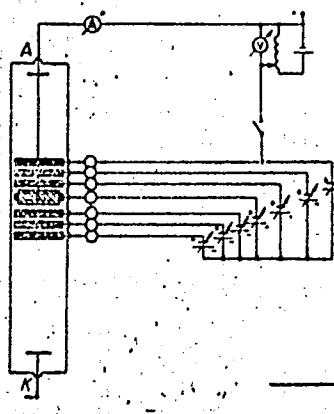
ABSTRACT: The torque acting in a nonisothermal plasma column depends on the ratio of radial electron and ion currents (Prof. L. Tonks). In an experimental verification, the above ratio was varied by superimposing a voltage between the plasma and an additional conducting wall mounted in a dielectric envelope containing the plasma. The conducting wall consisted of seven hollow metal

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UDC: 533.932

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ACC NR: AP6008296



cylinders (see figure). The torque acting upon a solid body suspended in the tube, in a region remote from the conducting wall, was measured. It is found that, as the plasma-wall voltage increases, the torque decreases, passes zero, and changes its sign which corresponds to a reversing of the direction of plasma rotation in the same magnetic field. As the voltage increases further, the torque quickly reaches the value that corresponds to the ambipolar diffusion, and then increases slowly. Curves illustrating details of the magnetomechanical effect are supplied. "The author wishes to thank V. L. Granovskiy for a discussion." Orig. art. has: 4 figures and 2 formulas.

SUB CODE: 20 / SUBM DATE: 26Feb65 / ORIG REF: 004

Card 2/2 Blg